Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject code: 2725101 **Date: 16-06-2014**

Subject Name: Application Security

Time: 02:30 pm - 05:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	What is MySQL? What is DDL, DML and DCL? How do you get the number of rows affected by query?	**07**
	(b)	Discuss two looping options in Python. Name and briefly describe any two list methods with their usage syntax.	**07**
Q.2	**(a)**	What are the most important steps you would recommend for securing a new web server? Web application?	**07**
	(b)	What do you see as challenges to successfully deploying/monitoring web intrusion detection?	**07**
		OR	
	(b)	On executing the DELETE statement in MySQL you keep getting the error about foreign key constraint failing. What do you do? When would you use ORDER BY in DELETE statement?	**07**
Q.3	**(a)**	What sort of logs will a typical Web application generate? How will this application handle authentication?	**07**
	(b)	Describe briefly Python list. What is an IDE and what are the advantages of using an IDE.	**07**
		OR	
Q.3	**(a)**	Name few IDE's that can be used for Python programming. Explain a doc string.	**07**
	(b)	What is -tt in python? Discuss placeholder in python with an example.	**07**
Q.4	**(a)**	What is string slicing in python? Discuss negative number for indexing (also used for slicing).	**07**
	(b)	Describe briefly Python string type. Name and briefly describe any two string methods with their usage syntax.	**07**
		OR	
Q.4	**(a)**	Explain the concept of immutability in python data types. What is unit testing?	**07**
	(b)	Discuss the logical connectives in Python. Name few comparison operators in Python.	**07**
Q.5	**(a)**	Discuss the importance of indentation in python. What is __name__ attribute?	**07**

	(b)	What is a module in python? Discuss some methods to get help on a module? Discuss the different ways to import a module.	**07**

OR

Q.5	**(a)**	Discuss functions in python. What is shebang? Why we need it?	**07**
	(b)	What is a command line argument with an example? Explain sys.argv	**07**

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